

Test report

Number T251-1049/25

Project file: C20250848

Date: 2026-01-30

Pages: 10

Product: Avalanche beacon

Type reference: FOCUS PRO, FOCUS VOICE

Ratings: 3.7 V d.c.
Class: III

Trademark:  ORTOVOX

Applicant: Ortovox Sportartikel
Rotwandweg 3a, 82024 Taufkirchen, Germany

Manufacturer: Ortovox Sportartikel
Rotwandweg 3a, 82024 Taufkirchen, Germany

Place of manufacture: BMK Czech Technologies s.r.o.
Eduarda Proppera 694, 417 42 Krupka 1, Czech Republic

Summary of testing

Testing method: Antenna pattern measurements

Testing location: SIQ Ljubljana
Mašera-Spasičeva ulica 10, SI-1000 Ljubljana, Slovenia

Remarks: Date of receipt of test items: 2025-10-23
Number of items tested: 1
Date of performance of tests: 2025-11-19
The test results presented in this report relate only to the items tested.
The test items were tested in the condition as received.
The product complies with the requirements of the testing methods.

Tested by: Luka Cvajnar

Approved by: Marjan Mak

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1 GENERAL

History sheet			
Date	Report No.	Change	Revision
2026-01-30	T251-1049/25	Initial Test Report issued.	--

Environmental conditions:

Ambient temperature: 15 °C to 35 °C

Relative humidity: 30 % to 60 %

Atmospheric pressure: 860 mbar to 1060 mbar

1.1 Equipment under test

Avalanche Transceiver

Type: FOCUS PRO, FOCUS VOICE

Tested was antenna pattern of the sample below.



Picture of test sample



Copy of marking plate

The artwork below may be only a draft. The use of certification marks on a product must be authorized by the respective NCBs that own these marks.



1.2 Antenna pattern measurement

1.2.1 Test procedure

The radiation pattern for BLE antenna implemented to PCB reference design has been measured in an anechoic chamber with 3 meters test distance. Test results show radiation patterns for two planes, measured with vertical and horizontal polarization of measuring antenna. All measurements were performed at 2402, 2440 and 2480 MHz frequency.



1.3 Test results BLE Antenna

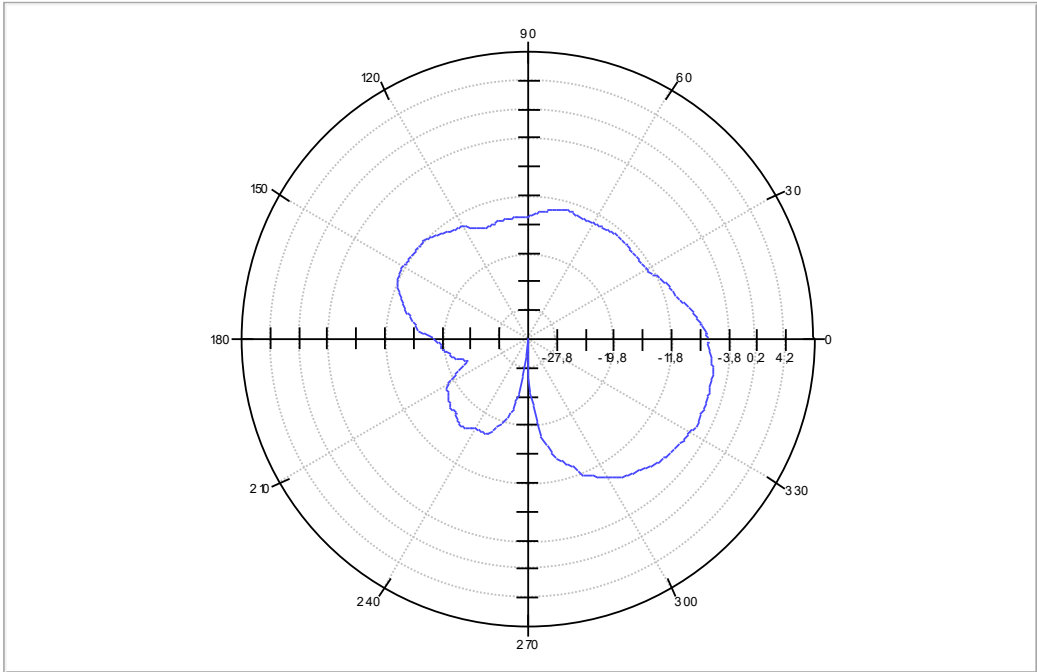
EUT Information

EUT:ORTOVOX FOCUS PRO

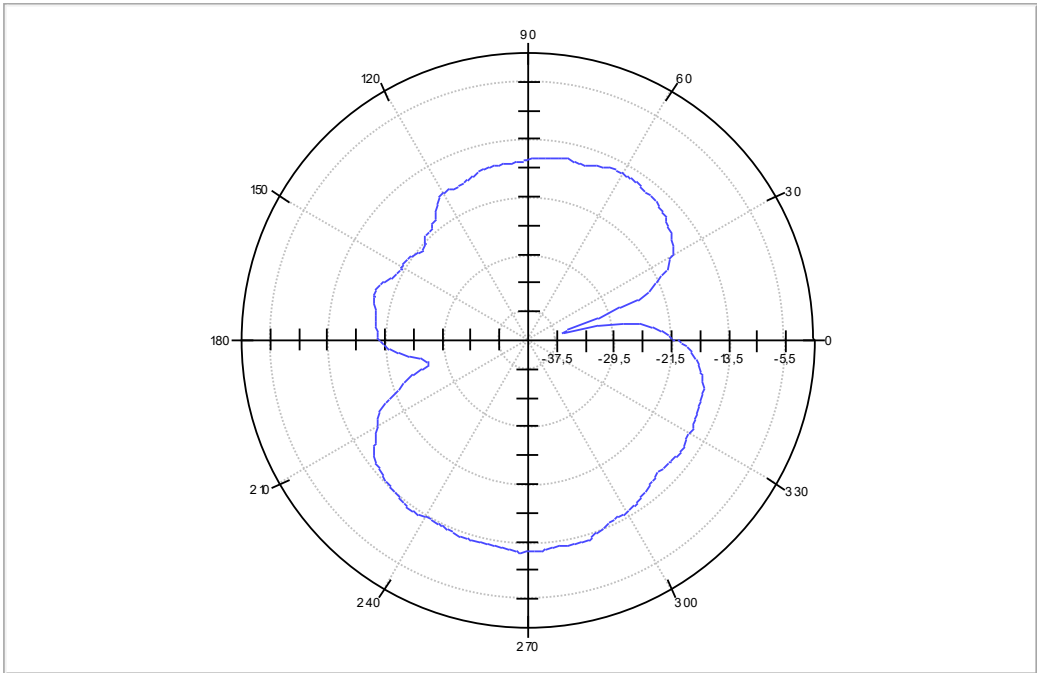
Operating mode:TX 2402 MHz 0 dBm

Frequency (MHz)	Max. Value (dBm)	Azimuth max. (deg)	Pol max.	Min. Value (dBm)	Azimuth min. (deg)	Pol min.
2402.000000	-5.37	336	H	-36.46	13	V

Azimuth Chart: Horizontal



Azimuth Chart: Vertical



EUT Information

EUT:

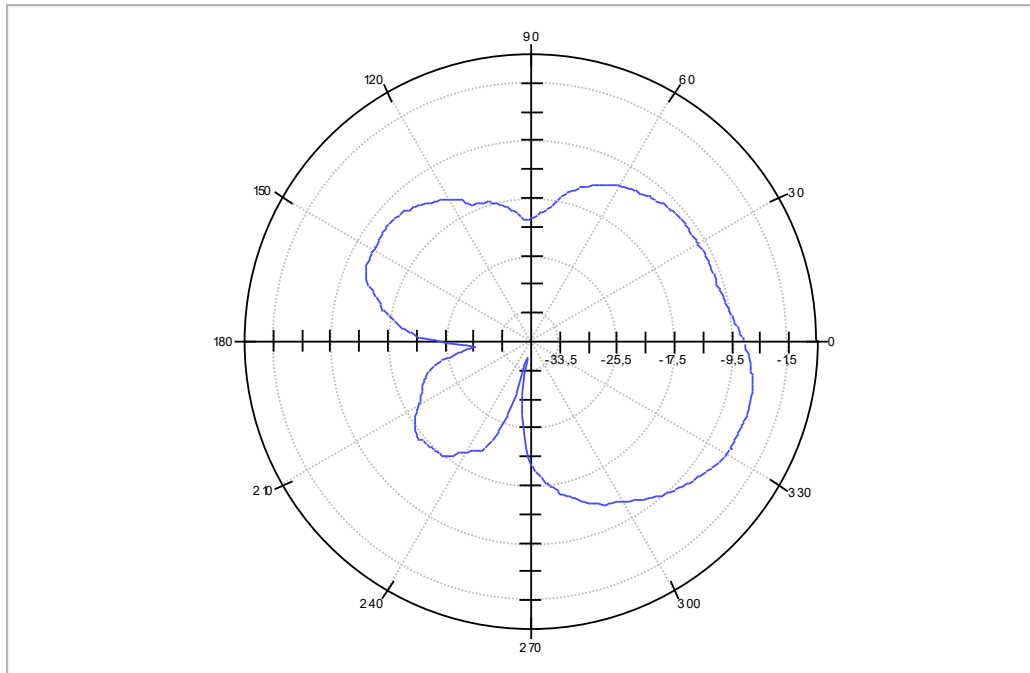
ORTOVOX FOCUS PRO

Operating mode:

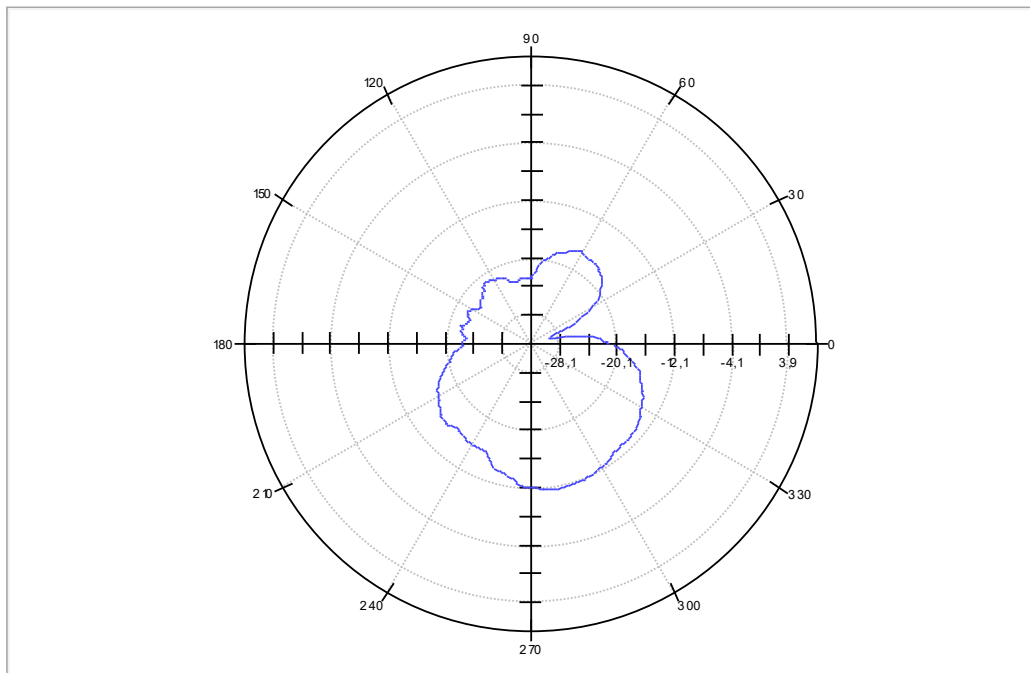
TX 2440 MHz 0 dBm

Frequency (MHz)	Max. Value (dBm)	Azimuth max. (deg)	Pol max.	Min. Value (dBm)	Azimuth min. (deg)	Pol min.
2440.000000	-5.72	339	H	-35.08	258	H

Azimuth Chart: Horizontal



Azimuth Chart: Vertical





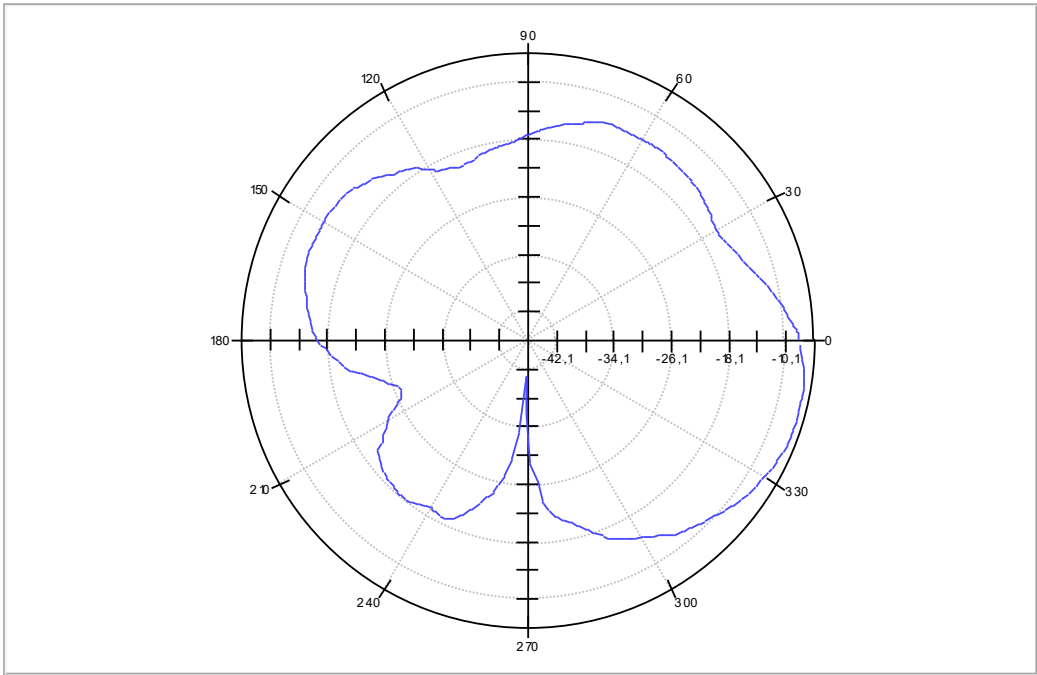
EUT Information

EUT:
Operating mode:

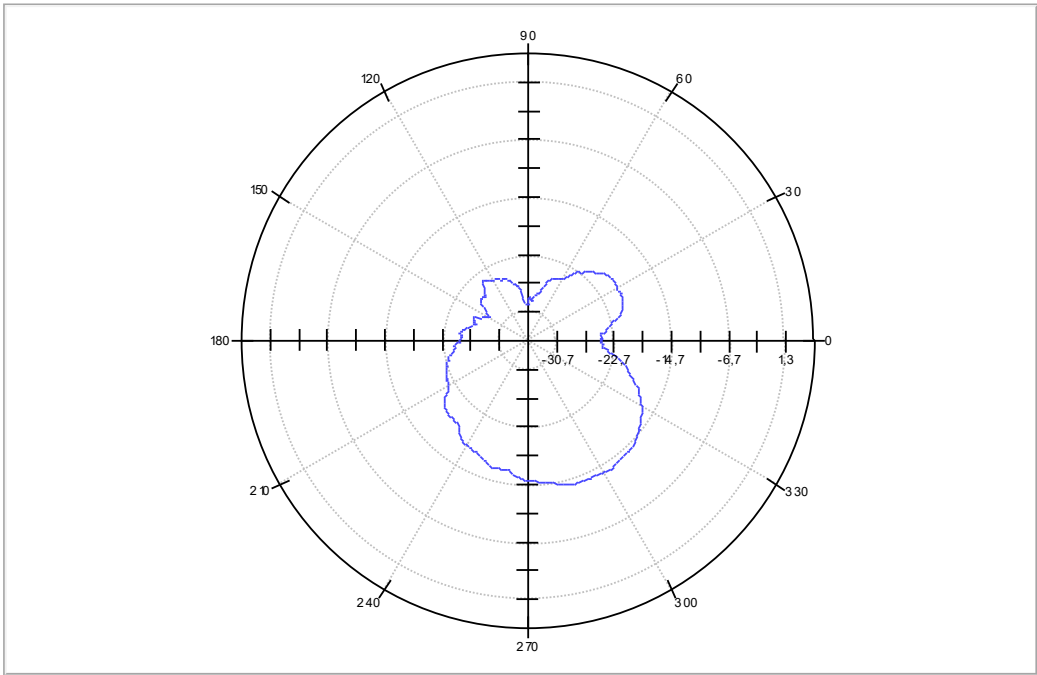
ORTOVOX FOCUS PRO
TX 2480 MHz 0 dBm

Frequency (MHz)	Max. Value (dBm)	Azimuth max. (deg)	Pol max.	Min. Value (dBm)	Azimuth min. (deg)	Pol min.
2480.000000	-6.95	341	H	-41.12	266	H

Azimuth Chart: Horizontal



Azimuth Chart: Vertical



1.4 Maximum BLE antenna gain

DUT Frequency (MHz)	Power setting (dBm)	Max Measured level (dBm)	Maximum antenna gain (dBi)
2402.000000	0.0	-5.37	-5.37
2440.000000	0.0	-5.72	-5.72
2480.000000	0.0	-6.95	-6.95

Maximum antenna gain = Power setting – Max Measured value



2 USED TEST EQUIPMENT

Antenna pattern measurement

Manufacturer	Model No.	Used	Calibrated	Calibrated until
Comtest engineering, SAC2 (together with controlling equipment)	SAC 3m	X	2025-03-27	2028-03-27
Maturo, Turn table (2 m diameter)	TT 2.0 SI	X	/	/
Maturo, Bore-sight antenna mast	BAM-4.0-P	X	/	/
Maturo, positioning equipment	NCD	X	/	/
Rohde & Schwarz, RFI receiver	ESW 44	X	2024-09-26	2026-03-26
R&S, Ultra Broadband Antenna	HL562E		2023-09-26	2026-09-26
R&S, Horn Antenna	HF907	X	2023-08-22	2026-08-22

-----END OF TEST REPORT-----